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PATENT & TRADEMARK OFFICE

INFORMATION DISCLOSURE TRANSMITTAL	Docket No. P7863-US-NP

Applicant:	Alexander T. Garthwaite and Steven K. Heller
Serial No:	10/679,183
Filed:	October 3, 2003
For:	DEFERRING AND COMBINING WRITE BARRIERS FOR A GARBAGE-COLLECTED HEAP
Examiner:	Not Yet Assigned
Art Unit:	2122

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on December 16, 2005.

Jan L. Mellen

Jan L. Mellen

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In keeping with the duty of candor and good faith owed to the Patent and Trademark Office, Applicant wishes to bring information to the attention of the Examiner. The filing of this statement shall not be construed as a representation that a search has been made or as an admission that this information is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

Enclosures

☒ A form PTO-1449 listing this information is attached
☒ Copies of documents cited, other than U.S. patents and published U.S. patent applications, are enclosed.
☐ Copies of the cited documents are not enclosed because .

Fees

☒ This statement is filed before the later of: (1) three months of (i) the filing of a national application or (ii) the entry date for the national stage of an international application; (2) the mailing date of a first office action on the merits; or (3) the mailing date of a first office action on the merits following the filing of a Request for Continued Examination. No fee is due.
☐ This statement is filed before the mailing date of a final office action, a notice of allowance or an action that otherwise closes prosecution, *and*
  ☐ The submission fee of $180.00 under 37 CFR §1.17(p) is enclosed, *or*
  ☐ The following certification is made:
    ☐ each item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart foreign

application not more than three months prior to the filing of this statement, or

☐ no item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in this statement was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

☐ This statement is filed on or before payment of the issue fee, the submission fee of $180.00 under 37 CFR §1.17(p) is enclosed, *and*

☐ each item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement, or

☐ no item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in this statement was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

Payment

☐ A check in the amount of the submission fee is enclosed.

☐ Charge Account No. 02-3038 in the amount of the submission fee. A duplicate of this transmittal sheet is attached.

Authorization to Charge Additional Fees

☒ The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. §1.16 and §1.17 required by the attached paper and during the entire pendency of this application to Account No. 02-3038.

Respectfully submitted,

Paul E. Kudirka Date: 12/16/05

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Sheet 1 of 10	Docket No. P7863-US-NP

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U.S. PATENT DOCUMENTS

Exam Inits	Cite No.	Patent Number	Kind Code	Patentee or Applicant Name	Issue Date
		10/287,851		GARTHWAITE, ET AL.	11/5/02
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		5,930,807	B1	EBRAHIM, ET AL.	07/27/99
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		6,021,415	B1	CANNON, ET AL.	02/01/00
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		6,148,310	B1	AZAGURY, ET AL.	11/14/00
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		6,381,738	B1	CHOI, ET AL.	04/30/02
		6,393,439	B1	HOULDSWORTH, ET AL.	05/21/02

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		EP	EP 0 969 377	A1	INT'L BUSINESS MACHINES CORP.	1/5/2000	☐
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OTHER PRIOR ART – NON PATENT LITERATURE AND DOCUMENTS

Exam Inits	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the articles (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
		APPEL, "Simple Generational Garbage Collection and Fast Allocation", Software Practice and Experience, 19(2), 1989, 171-183	☐
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		COURTS, "Improving Locality of Reference in a Garbage-Collecting Memory Management System", Communications of the ACM, Vol. 31, No. 9, September 1988, 1128-1138	☐
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		HOLZLE, URS, "A Fast Write Barrier for Generational Garbage Collectors", Workshop on Garbage Collection in Object Oriented Systems, October 1993	☐
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		HUDSON, ET AL., "Sapphire: Copying GC Without Stopping the World", Practice and Experience Special Issue, Date Unknown, JAVA/Grande/Iscope	☐
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Sheet 8 of 10	Docket No. P7863-US-NP

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